

**UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/314,750	05/19/99	MURAKAMI	H 0941.63081

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GREER, BURNS & CRAIN  
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WM01/1106

EXAMINER

LESFERANCE, J

ART UNIT

PAPER NUMBER

2674

DATE MAILED:

11/06/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.

09/314,750

Applicant(s)

Hiroshi Murakami

Examiner

Jean Lesperance

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Aug 20, 2001
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some\* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_
- 18) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

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## DETAILED ACTION

### Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

### Claim Rejections - 35 U. S. C. § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U. S. C. 102 (b) as being unpatentable over patent # 5,168,270 ("Masumori et al.").

As for claims 1-7, Masumori et al. teach a display unit which displays an image (column 1, lines 8-12); memories which store information regarding control of said display unit Fig.2 (11); an operation circuit unit which controls said display unit to display the image based on the information stored in said memories Fig.2 (10); a data bus which connects said memories to an exterior of said display device, and supplies the information to said memories from the exterior of said display device (column 5, lines 40-50); and an address bus which connects said memories to the exterior of said display device, and supplies address signals for selecting one of said

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memories Fig.2 (WCK, RCK, RE), a gate driver Fig.2 (122), a data driver (column 19, lines 11-18), a shift register (column 5, lines 51-68), a decoder (column 12, lines 5-12), an address counter (column 4, lines 58-68), memory store (column 1, lines 29-50), a data-synthesis circuit Fig.21 (20).

### **Claim Rejections - 35 U.S. C ,§ 103**

3. The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention as made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated the manner in which the invention was made.

Claims 8-11 are rejected under 35 U.S.C. 103 (a) as being unpatentable over patent # 6,115,020 ("Masumori et al.") in view of patent # 6,121,949 ("Ramamurthy et al.").

As for claims 8-11, Masumori et al. teach a display device (column 1, lines 8-12) and a data bus (column 5, lines 40-50) and address bus Fig.2 (WCK, RCK, RE), a thin film transistor (column 11, lines 29-44). Accordingly, Masumori et al. teach all the claimed limitations as recited in claims 8-11 with the exception of providing a display-information acquisition circuit.

However, Ramamurthy et al. disclosed sensors 248 may be within the panel display 132 (Fig.4) and see (column 5, lines 1-35) corresponding to the display-information acquisition.

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It would have been obvious to utilize a display-information acquisition as taught by Ramamurthy et al. in the liquid crystal display disclosed by Masumori et al. because this would allow the display system to be manually or automatically modified such that the display image can be improved as operating conditions change.

***Response to Amendment***

Applicant's arguments filed on 8-20-2001 have been fully considered but they are not persuasive. The applicant argued that regarding the drawing Fig. 6 is that only objected figure, why the rest of the figures are not acceptable. In order the for all the figures to be acceptable, none of them can be objected. The applicant has to correct the objected one first.

The applicant argued that the prior art used, Masumori, does not disclose or suggest "control of the display unit is stored in the memories". Examiner disagrees because Masumori discloses the picture element data is stored in the memories (column 8, lines 40-62) corresponding to control of the display unit is stored in the memories. The claim limitation is so broad which makes it easy for just any display that is stored somewhere to read on it. The interpretation of the control of the display unit here is the picture element data which controls the display. Therefore the rejection stands as was rejected in the previous office action.

**Conclusion**

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709 .

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

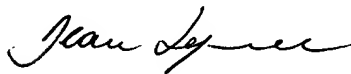
(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance



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Date 10-22-2001



**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**